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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-08-22-75** **Date: 24-06-19**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Construction of RCC Drains at Maruthi Layout 1st, 2nd and 4th Cross in Ward No. 06 Byatarayanapura Sub Division.
Agency	:	Sri.Murali Mohan Y V, #85, Kodigehalli, Sahakaranagara, Bangalore-560 092.
Customer's Reference	:	BBMP/EE/BTP/WO/30/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-06-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	22-06-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	–
2	Finess by Air permeablity method (m^2/kg,Min)	348.6	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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All information furnished by Customer/Representative

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Technical Manager

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 20-07-19

Lab ID	:	CP-2019-08-22-75
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Construction of RCC Drains at Maruthi Layout 1st, 2nd and 4th Cross in Ward No. 06 Byatarayanapura Sub Division.
Agency	:	Sri.Murali Mohan Y V, #85, Kodigehalli, Sahakaranagara, Bangalore-560 092.
Customer's Reference	:	BBMP/EE/BTP/WO/30/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-06-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	22-06-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-08-22-75** **Date: 24-06-19**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Construction of RCC Drains at Maruthi Layout 1st, 2nd and 4th Cross in Ward No. 06 Byatarayanapura Sub Division.
Agency	:	Sri.Murali Mohan Y V, #85, Kodigehalli, Sahakaranagara, Bangalore-560 092.
Customer's Reference	:	BBMP/EE/BTP/WO/30/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	21-06-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	21-06-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-08-22-75** **Date: 24-06-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.41	–
5	Bulk Density(Compacted) (Kg/l)	1.47	–
6	Water Absorption(%)	0.23	–

Note:
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TEST REPORT ON COARSE AGGREGATES

Date: 24-06-19

Lab ID	:	CP-2019-08-22-75
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Construction of RCC Drains at Maruthi Layout 1st, 2nd and 4th Cross in Ward No. 06 Byatarayanapura Sub Division.
Agency	:	Sri.Murali Mohan Y V, #85, Kodigehalli, Sahakaranagara, Bangalore-560 092.
Customer Reference	:	BBMP/EE/BTP/WO/30/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-06-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	21-06-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	225	225	4.5	95.5	90-100
3	10 mm	2845	3070	61.4	38.6	25-55
4	4.75 mm	1745	4815	96.3	3.7	0-10
5	Pan	185	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-08-22-75** **Date: 24-06-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.1	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.43	–
5	Bulk Density(Compacted) (Kg/l)	1.49	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	22.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Date: 24-06-19

Lab ID	:	CP-2019-08-22-75
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Construction of RCC Drains at Maruthi Layout 1st, 2nd and 4th Cross in Ward No. 06 Byatarayanapura Sub Division.
Agency	:	Sri.Murali Mohan Y V, #85, Kodigehalli, Sahakaranagara, Bangalore-560 092.
Customer's Reference	:	BBMP/EE/BTP/WO/30/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-06-19
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	21-06-19
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-08-22-75**

Date: 24-06-19

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Date: 28-06-19

Lab ID	:	CP-2019-08-22-75
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Construction of RCC Drains at Maruthi Layout 1st, 2nd and 4th Cross in Ward No. 06 Byatarayanapura Sub Division.
Agency	:	Sri.Murali Mohan Y V, #85, Kodigehalli, Sahakaranagara, Bangalore-560 092.
Customer's Reference	:	BBMP/EE/BTP/WO/30/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-06-19
Sample Type/Size	:	Solid concrete blocks size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	25-06-19

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	398	150	201	12000	32.519	2710.0	2656.1	Not less than 1800Kg/m^3
2	398	148	203	11958	31.170	2606.8		
3	401	149	201	12010	31.846	2651.7		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : **CP-2019-08-22-75** **Date: 28-06-19**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	404	152	202	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	149	199	
3	402	151	202	
4	401	151	199	
5	401	151	199	
6	401	150	200	
7	403	151	203	
8	400	151	200	
9	404	153	201	
10	399	150	202	
11	403	150	199	
12	402	151	202	
13	400	152	200	
14	401	153	201	
15	400	152	199	
16	402	149	199	
17	402	152	200	
18	403	153	201	
19	400	152	203	
20	402	152	202	
Average of 20	402	151	201	

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Lab ID : CP-2019-08-22-75

Date: 28-06-19

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	404	152	61402	268.2	4.4	4.5
2	401	149	59804	267.4	4.5	
3	402	151	60712	281.2	4.6	
4	401	151	60539	272.2	4.5	
5	401	151	60562	260.9	4.3	
6	401	150	60179	263.3	4.4	
7	403	151	60918	271.9	4.5	
8	400	151	60444	276.7	4.6	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID : CP-2019-08-22-75 **Date: 01-07-19**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Construction of RCC Drains at Maruthi Layout 1st, 2nd and 4th Cross in Ward No. 06 Byatarayanapura Sub Division.

Agency : Sri.Murali Mohan Y V, #85, Kodigehalli, Sahakaranagara, Bangalore-560 092.

Customer's Reference : BBMP/EE/BTP/WO/30/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-06-19

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 29-06-19

SLNo	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

Note:

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2019-08-22-75 **Date: 06-07-19**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Construction of RCC Drains at Maruthi Layout 1st, 2nd and 4th Cross in Ward No. 06 Byatarayanapura Sub Division.

Agency : Sri.Murali Mohan Y V, #85, Kodigehalli, Sahakaranagara, Bangalore-560 092.

Customer's Reference : BBMP/EE/BTP/WO/30/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-07-19

Sample Type /Size : Precast Cover Slab(250mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 02/07/2019

SL No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.52	250.47	3.126	31574	240.8	7.6	7.1	8.9
2	Cover Slab-2	200.48	250.51	3.112	31561	242.4	7.7	7.1	8.9
3	Cover Slab-3	200.53	250.52	3.128	31577	241.6	7.7	7.1	8.9

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-08-22-75 **Date: 15/07/2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Construction of RCC Drains at Maruthi Layout 1st, 2nd and 4th Cross in Ward No. 06 Byatarayanapura Sub Division.

Agency : Sri.Murali Mohan Y V, #85, Kodigehalli, Sahakaranagara, Bangalore-560 092.

Customer's Reference : BBMP/EE/BTP/WO/30/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-07-19

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	08/07/2019	15/07/2019	150.51 X 149.70 X 151.20	22531	8.952	280.5	12.4	12.5
2	PCC	M15	08/07/2019	15/07/2019	150.13 X 151.81 X 151.17	22790	8.037	293.0	12.9	
3	PCC	M15	08/07/2019	15/07/2019	151.90 X 150.28 X 849.10	22828	8.473	281.5	12.3	

Note:

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ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-24

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 05/08/2019

Lab ID	:	**CP-2019-08-22-75**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Construction of RCC Drains at Maruthi Layout 1st, 2nd and 4th Cross in Ward No. 06 Byatarayanapura Sub Division.
Agency	:	Sri.Murali Mohan Y V, #85, Kodigehalli, Sahakaranagara, Bangalore-560 092.
Customer's Reference	:	BBMP/EE/BTP/WO/30/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-07-19
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	05/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	PCC	M15	08/07/2019	05/08/2019	150.01 X 149.34 X 150.35	22403	8.678	397.8	17.8	17.6
2	PCC	M15	08/07/2019	05/08/2019	151.72 X 149.21 X 149.90	22638	8.803	394.4	17.4	
3	PCC	M15	08/07/2019	05/08/2019	150.91 X 149.93 X 149.92	22627	8.551	400.6	17.7	

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Technical Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 15/07/2019

Lab ID	:	**CP-2019-08-22-75**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Construction of RCC Drains at Maruthi Layout 1st, 2nd and 4th Cross in Ward No. 06 Byatarayanapura Sub Division.
Agency	:	Sri.Murali Mohan Y V, #85, Kodigehalli, Sahakaranagara, Bangalore-560 092.
Customer's Reference	:	BBMP/EE/BTP/WO/30/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-07-19
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	15/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	08/07/2019	15/07/2019	149.46 X 151.75 X 150.43	22681	8.952	290.1	12.8	12.4
2	PCC	M15	08/07/2019	15/07/2019	149.42 X 149.16 X 150.33	22287	8.037	279.1	12.5	
3	PCC	M15	08/07/2019	15/07/2019	151.04 X 150.86 X 150.44	22787	8.473	273.6	12.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-08-22-75** **Date: 05/08/2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Construction of RCC Drains at Maruthi Layout 1st, 2nd and 4th Cross in Ward No. 06 Byatarayanapura Sub Division.

Agency : Sri.Murali Mohan Y V, #85, Kodigehalli, Sahakaranagara, Bangalore-560 092.

Customer's Reference : BBMP/EE/BTP/WO/30/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-07-19

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	08/07/2019	05/08/2019	150.74 X 150.77 X 151.35	22726	8.678	407.6	17.9	17.8
2	PCC	M15	08/07/2019	05/08/2019	151.43 X 151.64 X 149.82	22964	8.803	407.9	17.8	
3	PCC	M15	08/07/2019	05/08/2019	150.74 X 151.42 X 149.20	22825	8.551	406.4	17.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-08-22-75** **Date: 16/07/2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Construction of RCC Drains at Maruthi Layout 1st, 2nd and 4th Cross in Ward No. 06 Byatarayanapura Sub Division.

Agency : Sri.Murali Mohan Y V, #85, Kodigehalli, Sahakaranagara, Bangalore-560 092.

Customer's Reference : BBMP/EE/BTP/WO/30/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-07-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	09/07/2019	16/07/2019	151.75 X 149.88 X 150.82	22745	8.812	422.1	18.6	18.3
2	Drain Bottom Slab Concrete	M20	09/07/2019	16/07/2019	150.22 X 151.11 X 151.06	22701	8.159	413.0	18.2	
3	Drain Bottom Slab Concrete	M20	09/07/2019	16/07/2019	151.57 X 149.08 X 150.95	22596	8.963	412.0	18.2	

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ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ.ಬ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-08-22-75** **Date: 06/08/2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Construction of RCC Drains at Maruthi Layout 1st, 2nd and 4th Cross in Ward No. 06 Byatarayanapura Sub Division.

Agency : Sri.Murali Mohan Y V, #85, Kodigehalli, Sahakaranagara, Bangalore-560 092.

Customer's Reference : BBMP/EE/BTP/WO/30/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-07-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	09/07/2019	06/08/2019	149.56 X 149.80 X 149.74	22404	8.818	525.7	23.5	23.4
2	Drain Bottom Slab Concrete	M20	09/07/2019	06/08/2019	150.62 X 151.79 X 150.62	22862	8.275	521.3	22.8	
3	Drain Bottom Slab Concrete	M20	09/07/2019	06/08/2019	149.03 X 151.97 X 151.75	22648	8.421	541.8	23.9	

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 16/07/2019

Lab ID	:	CP-2019-08-22-75
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Construction of RCC Drains at Maruthi Layout 1st, 2nd and 4th Cross in Ward No. 06 Byatarayanapura Sub Division.
Agency	:	Sri.Murali Mohan Y V, #85, Kodigehalli, Sahakaranagara, Bangalore-560 092.
Customer's Reference	:	BBMP/EE/BTP/WO/30/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-07-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	09/07/2019	16/07/2019	151.02 X 150.15 X 151.39	22676	8.812	427.2	18.8	18.8
2	Drain Bottom Slab Concrete	M20	09/07/2019	16/07/2019	151.67 X 149.18 X 149.72	22627	8.159	426.7	18.9	
3	Drain Bottom Slab Concrete	M20	09/07/2019	16/07/2019	150.29 X 150.45 X 151.11	22611	8.963	423.1	18.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 06/08/2019

Lab ID	:	**CP-2019-08-22-75**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Construction of RCC Drains at Maruthi Layout 1st, 2nd and 4th Cross in Ward No. 06 Byatarayanapura Sub Division.
Agency	:	Sri.Murali Mohan Y V, #85, Kodigehalli, Sahakaranagara, Bangalore-560 092.
Customer's Reference	:	BBMP/EE/BTP/WO/30/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-07-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	09/07/2019	06/08/2019	150.11 X 151.41 X 151.03	22729	8.818	545.4	24.0	23.5
2	Drain Bottom Slab Concrete	M20	09/07/2019	06/08/2019	151.79 X 150.31 X 151.73	22815	8.275	520.0	22.8	
3	Drain Bottom Slab Concrete	M20	09/07/2019	06/08/2019	149.31 X 149.78 X 149.31	22363	8.421	531.1	23.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 16/07/2019

Lab ID	:	CP-2019-08-22-75
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Construction of RCC Drains at Maruthi Layout 1st, 2nd and 4th Cross in Ward No. 06 Byatarayanapura Sub Division.
Agency	:	Sri.Murali Mohan Y V, #85, Kodigehalli, Sahakaranagara, Bangalore-560 092.
Customer's Reference	:	BBMP/EE/BTP/WO/30/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-07-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	09/07/2019	16/07/2019	149.47 X 149.20 X 149.02	22301	8.812	403.4	18.1	18.5
2	Drain Bottom Slab Concrete	M20	09/07/2019	16/07/2019	150.90 X 149.26 X 151.33	22524	8.159	421.0	18.7	
3	Drain Bottom Slab Concrete	M20	09/07/2019	16/07/2019	150.82 X 149.10 X 150.03	22486	8.963	420.2	18.7	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 06/08/2019

Lab ID	:	**CP-2019-08-22-75**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Construction of RCC Drains at Maruthi Layout 1st, 2nd and 4th Cross in Ward No. 06 Byatarayanapura Sub Division.
Agency	:	Sri.Murali Mohan Y V, #85, Kodigehalli, Sahakaranagara, Bangalore-560 092.
Customer's Reference	:	BBMP/EE/BTP/WO/30/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-07-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	09/07/2019	06/08/2019	149.85 X 150.18 X 149.44	22504	8.818	534.4	23.7	23.3
2	Drain Bottom Slab Concrete	M20	09/07/2019	06/08/2019	149.10 X 151.71 X 150.16	22619	8.275	508.0	22.5	
3	Drain Bottom Slab Concrete	M20	09/07/2019	06/08/2019	150.47 X 149.70 X 151.99	22526	8.421	536.7	23.8	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
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Samples will be disposed after 90 days from the date of issue of test certificate

CIVIL PRO BANGALORE Sig..... Date.....

FOR CIVIL Pro.
R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 22/07/2019

Lab ID	:	CP-2019-08-22-75
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Construction of RCC Drains at Maruthi Layout 1st, 2nd and 4th Cross in Ward No. 06 Byatarayanapura Sub Division.
Agency	:	Sri.Murali Mohan Y V, #85, Kodigehalli, Sahakaranagara, Bangalore-560 092.
Customer's Reference	:	BBMP/EE/BTP/WO/30/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-07-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	15/07/2019	22/07/2019	150.98 X 151.14 X 151.89	22819	8.067	425.4	18.6	18.6
2	Drain Side Wall Concrete	M20	15/07/2019	22/07/2019	150.45 X 151.46 X 149.02	22787	8.653	429.9	18.9	
3	Drain Side Wall Concrete	M20	15/07/2019	22/07/2019	149.03 X 151.50 X 151.36	22577	8.671	414.4	18.4	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 13/08/2019

Lab ID	:	CP-2019-08-22-75
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Construction of RCC Drains at Maruthi Layout 1st, 2nd and 4th Cross in Ward No. 06 Byatarayanapura Sub Division.
Agency	:	Sri.Murali Mohan Y V, #85, Kodigehalli, Sahakaranagara, Bangalore-560 092.
Customer's Reference	:	BBMP/EE/BTP/WO/30/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-07-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	15/07/2019	13/08/2019	151.45 X 149.21 X 151.41	22597	8.233	535.1	23.7	23.2
2	Drain Side Wall Concrete	M20	15/07/2019	13/08/2019	151.29 X 150.52 X 150.05	22773	8.802	512.9	22.5	
3	Drain Side Wall Concrete	M20	15/07/2019	13/08/2019	150.16 X 151.08 X 150.77	22688	8.412	530.2	23.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 22/07/2019

Lab ID	:	**CP-2019-08-22-75**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Construction of RCC Drains at Maruthi Layout 1st, 2nd and 4th Cross in Ward No. 06 Byatarayanapura Sub Division.
Agency	:	Sri.Murali Mohan Y V, #85, Kodigehalli, Sahakaranagara, Bangalore-560 092.
Customer's Reference	:	BBMP/EE/BTP/WO/30/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-07-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	15/07/2019	22/07/2019	149.22 X 149.79 X 150.56	22353	8.067	410.3	18.4	18.5
2	Drain Side Wall Concrete	M20	15/07/2019	22/07/2019	149.60 X 151.05 X 149.47	22598	8.653	417.8	18.5	
3	Drain Side Wall Concrete	M20	15/07/2019	22/07/2019	150.64 X 149.39 X 149.44	22504	8.671	419.5	18.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-08-22-75 **Date: 13/08/2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Construction of RCC Drains at Maruthi Layout 1st, 2nd and 4th Cross in Ward No. 06 Byatarayanapura Sub Division.

Agency : Sri.Murali Mohan Y V, #85, Kodigehalli, Sahakaranagara, Bangalore-560 092.

Customer's Reference : BBMP/EE/BTP/WO/30/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-07-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	15/07/2019	13/08/2019	151.79 X 150.83 X 150.04	22894	8.233	540.3	23.6	23.0
2	Drain Side Wall Concrete	M20	15/07/2019	13/08/2019	151.15 X 151.16 X 150.22	22847	8.802	504.6	22.1	
3	Drain Side Wall Concrete	M20	15/07/2019	13/08/2019	150.86 X 150.67 X 149.23	22730	8.412	532.0	23.4	

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